

Chip Type, Long Life Assurance







- Chip type with load life of 5000 hours at +105°C.
- Designed for surface mounting on high density PC board.
- Compliant to the RoHS directive (2011/65/EU).
- AEC-Q200 compliant. Please contact us for details.

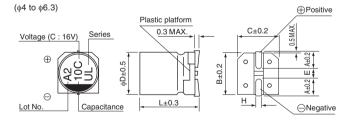


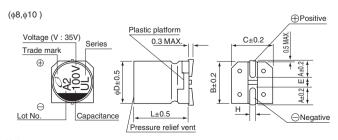


■Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 to +105°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	1 to 1000μF	1 to 1000µF									
Capacitance Tolerance	±20% at 120Hz, 2	±20% at 120Hz, 20°C									
Leakage Current	After 2 minutes' a	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01 CV or 3 (µA), Max									
	Measurement frequency : 120Hz at 20°C										
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16		25			50		
	tan δ (MAX.)	0.32	0.24	0.20		0.16	0.13		0.12		
	Measurement frequency : 120Hz									_	
O. 1.177	Rated voltage (V)		6.3	10	16		25	35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+20°C	4	3	2		2	2	2		
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	10	7	5		3	3	3		
Endurance	The specifications when the capacito	tan δ				300% or less than the initial specified value					
	rated voltage is applied for 5000 hours at 105°C. Leakage current Less than or equal to the initial specified value								I value		
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.										
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C. Capacitance change Within $\pm 10\%$ of the initial capacitors that δ Leakage current Less than or equal to the initial capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.					he initial specified value					
Marking	Black print on the	case top.									

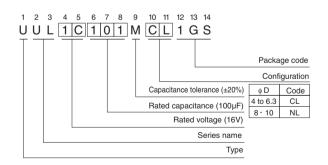
■Chip Type





Voltage | V | 6.3 | 10 | 16 | 25 | 35 | 50 | | Code | j | A | C | E | V | H |

Type numbering system (Example: 16V 100µF)



(mm)
10
.2
.3
.3
.5
0
1.1
(

UUL

Dimensions

Cap. Code (μF)		6.3		10		16		25		35		50	
		OJ		1A		1C		1E		1V		1H	
1	010											4×5.8	6.2
2.2	2R2											4×5.8	11
3.3	3R3											4×5.8	14
4.7	4R7									4×5.8	15	5×5.8	19
10	100					4 × 5.8	18	5 × 5.8	25	5×5.8	25	6.3 × 5.8	30
22	220			5 × 5.8	30	5 × 5.8	30	6.3 × 5.8	42	6.3 × 5.8	42	6.3×7.7	49
33	330	5×5.8	35	5 × 5.8	35	6.3 × 5.8	48	6.3 × 5.8	48	6.3×7.7	57	8 × 10	77
47	470	5×5.8	36	6.3 × 5.8	50	6.3 × 5.8	50	6.3×7.7	63	8 × 10	92	8 × 10	92
100	101	6.3×5.8	60	6.3×7.7	81	6.3×7.7	81	8×10	116	10 × 10	151	10 × 10	151
220	221	6.3×7.7	101	8 × 10	141	10×10	216	10×10	216	10 × 10	216		i !
330	331	8×10	160	10 × 10	238	10×10	238	10×10	238				i i
470	471	10×10	254	10 × 10	254	10×10	254						
1000	102	10×10	313									Case size φ D × L (mm)	Rated ripple

Rated ripple current (mArms) at 105°C 120Hz

• Frequency coefficient of rated ripple current

Frequency	50 Hz 120 Hz		300 Hz	1 kHz	10 kHz or more	
Coefficient	0.70	1.00	1.17	1.36	1.50	

- \bullet Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.

Mouser Electronics

Authorized Distributor

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Nichicon:

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UUL1H470MNL1GS UUL1A221MNL1GS UUL1V221MNL1GS UUL1V330MCL1GS UUL1V470MNL1GS
UUL1H4R7MCL1GS UUL0J101MCL1GS UUL0J221MCL1GS UUL0J330MCL1GS UUL0J470MCL1GS
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UUL1A471MNL1GS UUL1C100MCL1GS UUL1C221MNL1GS UUL1C330MCL1GS UUL1C331MNL1GS
UUL1E220MCL1GS UUL1E221MNL1GS UUL1E330MCL1GS UUL1H0R1MCL1GS UUL1H220MCL1GS
UUL1H2R2MCL1GS UUL1H330MNL1GS UUL1H3R3MCL1GS UUL1HR22MCL1GS UUL1HR33MCL1GS
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